

Piston Seal

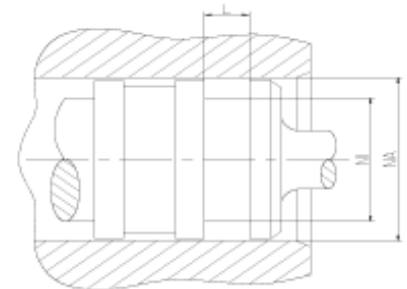
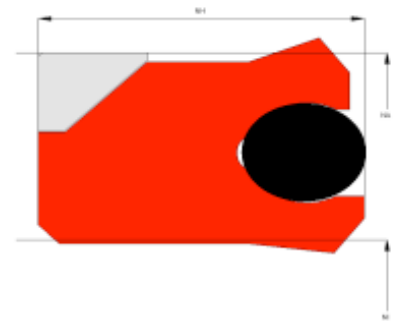
XSPS04

Function:

Piston seals are designed to seal the pressurized hydraulic fluid against the atmosphere or between two pressurized spaces.

Features:

- Asymmetrical, single acting piston seal, designed with interference on the ID which provides a good static fit in the groove.
- Dynamic sealing lip shorter than static lip to avoid drag pressure.
- Increased preload due to an additional O-Ring.
- Activated back-up ring prevents and reduces gap extrusion.
- Excellent static and dynamic sealing performance.
- Excellent performance in all pressure ranges.
- Used for short, pulsating strokes.
- No reverse leakage when changing direction.
- Recommended for positioning or holding under pressure.



Application:

Reciprocating pistons in hydraulic cylinders, plungers, push rods, fittings, etc.
Switching or clamping functions
Max. pressure 700 bar, max. speed 0.5 m/s.

Seal housing recommendation:

Tolerances	[mm]	
L < 10mm	+0.2	
L ≥ 10mm	+0.3	
Ø NA	H9	
Ø NI	h10	

Surface roughness	Rtmax [µ]	Ra [µ]
Bottom of groove	≤ 6.3	≤ 1.6
Face of groove	≤ 15	≤ 3

Sliding surface	Rtmax [µ]	Ra [µ]
PU, elastomeres	≤ 2.5	≤ 0.1 - 0.5
PTFE	≤ 2	≤ 0.05 - 0.3

Installation:

Snap-in installation